

ABSTRACT

A photosensitive polysilazane which may be used as a positive-tone photoresist, and a method of forming a patterned polysilazane film by use of such a composition are provided. The photosensitive polysilazane composition of the invention is characterized by comprising a polysilazane, particularly polymethylsilazane or polyphenylsilazane, and an optically acid-generating agent. The patterned polysilazane film is obtained by exposing a coating of the photosensitive polysilazane composition of the invention to light in a pattern and dissolving off the exposed portion.